

SECTION 10350

FLAGPOLE

PART 1 GENERAL

1.01 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data and installation instructions for each type of flagpole required.
- B. Shop Drawings: Submit shop drawings of flagpole and base, showing general layout, jointing and complete anchoring and supporting systems and concrete footing size.
- C. Samples: Submit samples of each finished metal for flagpole, and fittings, as may be requested.

1.02 QUALITY ASSURANCE

- A. Manufacturing Standards: Provide flagpole as a complete unit produced by a single manufacturer, including fittings accessories, base and anchorage devices.
- B. Pole Construction: Construct pole and ship to the site in one piece if possible. If more than one piece is necessary, provide snug-fitting, precision joints with self-aligning, internal splicing sleeve arrangement for weather-tight and invisible field joints.

1.03 DELIVERY, STORAGE AND HANDLING

- A. Do not deliver flagpole until site is ready for installation.
- B. Spiral wrap each flagpole with heavy Kraft paper or other protective wrapping and prepare for shipment in hard fiber tube or other protective container.
- C. Deliver flagpole and accessories completely identified for installation procedure. Handle and store flagpole to prevent damage or soiling.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Subject to compliance with requirements, provide products of one of the following:
 - 1. Acme Flagpole Co.
 - 2. American Flagpole
 - 3. Baartol Co., Inc.
 - 4. Babcock-Davis Assoc., Inc.
 - 5. Hortie-Van Mfg. Co.
 - 6. Outdoor Products Co.

2.02 FLAGPOLE TYPE

- A. Aluminum Flagpole: Fabricate from seamless extruded aluminum tubing, alloy 6063-T6, having a

minimum wall thickness of 3/16 inch (0.1875 inch), tensile strength not less than 30,000 psi and a yield point of 25,000 psi. Heat-treat and age-harden aluminum flagpole.

1. Provide cone tapered aluminum flagpole.

2.03 FLAGPOLE MOUNTING

- A. Base Plate: For anchor-bolt mounting, furnish manufacturer's standard cast metal shoe base of the same material as the flagpole, unless otherwise indicated. Furnish and install anchor bolts and lightning ground spike as required.

2.04 FLAGPOLE FINISH

- A. Aluminum Flagpole: Very fine, non-directional, mechanical polish, finished as follows:
 1. Natural clear anodized finish complying with NAAMM-C22A41, Class I (0.7 mil).

2.05 FLAGPOLE FITTINGS

- A. Finial Ball: Manufacturer's standard flush seam ball size as shown or, if not shown, to match pole butt diameter.
 1. Spun stainless steel, mirror polish finish.
- B. Truck: Ball-bearing, non-fouling, revolving, single-truck assembly of cast metal, finished to match pole.
- C. Cleats: 9 inch cast metal with fasteners.
- D. Cleat Cover: Cast aluminum including hinges and padlock hasp. Finish to match pole.
- E. Halyards: Internal Type, Provide 1 continuous halyards for each flagpole, as follows:
 1. Polypropylene, white, braided.
 2. Size: 3/8 inch (No. 12).
- F. Halyard Flag Snaps: Provide 4 swivel snaps per halyard, as follows:
 1. Aluminum.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Excavation: Excavate for foundation concrete to neat clean lines in undisturbed soil. Provide forms where required due to unstable soil conditions. Remove wood, loose soil, rubbish and other foreign matter from excavation, and wet the earth before placing concrete.
- B. Flagpole Installation: Install flagpole as shown and in compliance with the final shop drawings and the manufacturer's instructions.

1. Provide positive lightning ground for each flagpole installation.

C. Concrete:

1. Provide concrete composed of portland cement, coarse aggregate, fine aggregate and water, mixed in proportions to attain a 28 day compressive strength of not less than 3000 psi. Use not less than 5 sacks of portland cement, complying with ASTM C 150, Type I or II, per cubic yard of wet concrete.
2. Place concrete immediately after mixing. Do not use or place after set has begun. Perform chuting to avoid segregation of the mix. Compact concrete in place by use of vibrators to consolidate. Moist-cure exposed concrete for not less than 7 days, or use a non-staining curing compound.

END OF SECTION